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(54) Title: METHOD AND APPARATUS FOR PRODUCT RECOVERY OF POLYOLEFINS

(57) Abstract

A method and apparatus for product recovery of polyolefins, particularly high molecular weight amorphous poly alphaolefins, wherein the use of water during the method is significantly decreased and wherein the intermediate stage of storing and drying the chunk form of the polyolefin is eliminated. Polyolefins produced in a reactor are heated and mixed by sigma blades in a kneader-extruder to remove any unreacted monomer(s). The polyolefin material in a liquid form is then transferred directly to an extruder to further remove any unreacted monomer(s) and catalyst(s). The invention further includes a method of measuring the inventory in a vessel using a gas of known quantity and known thermodynamic properties.

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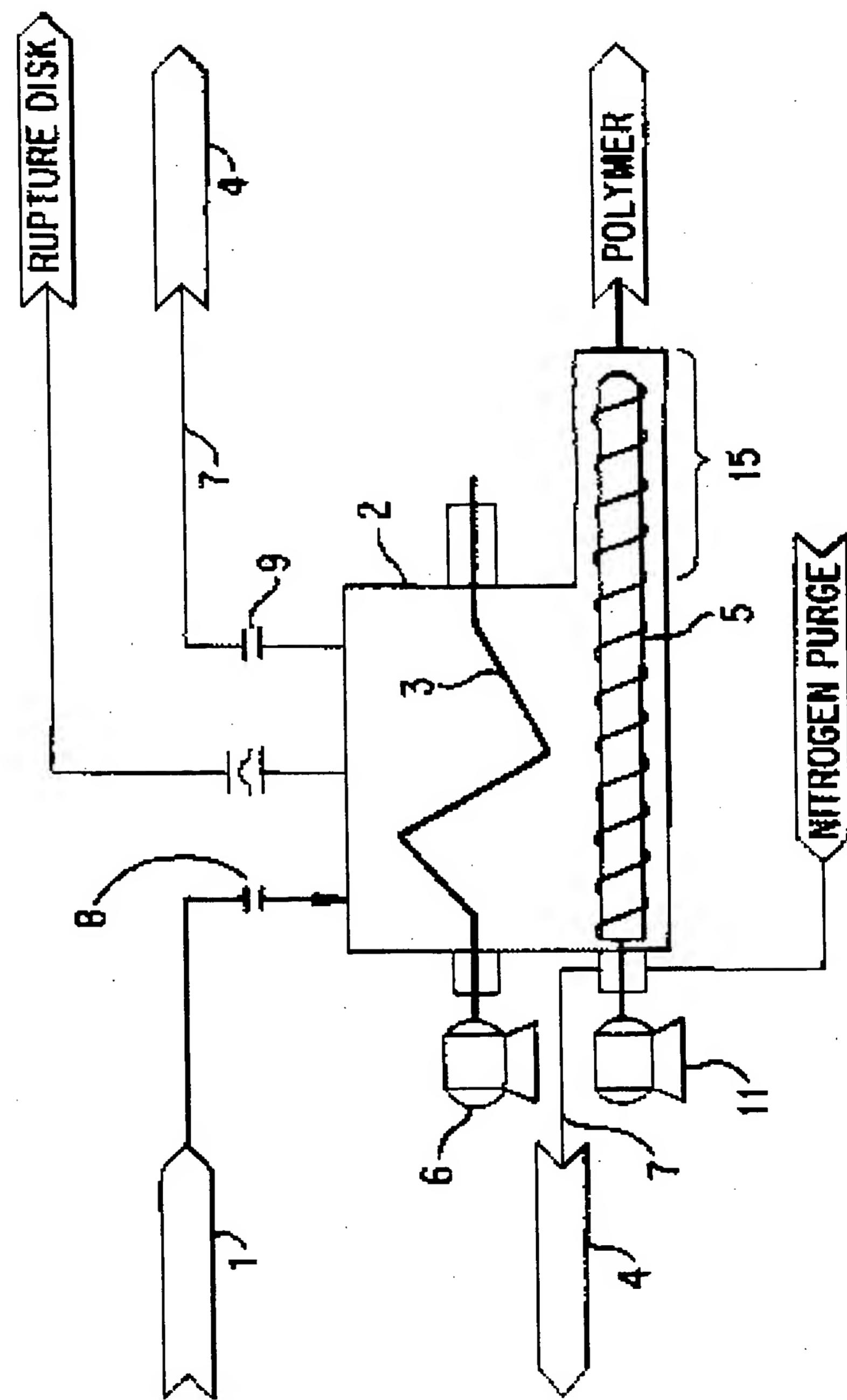


FIG. 1

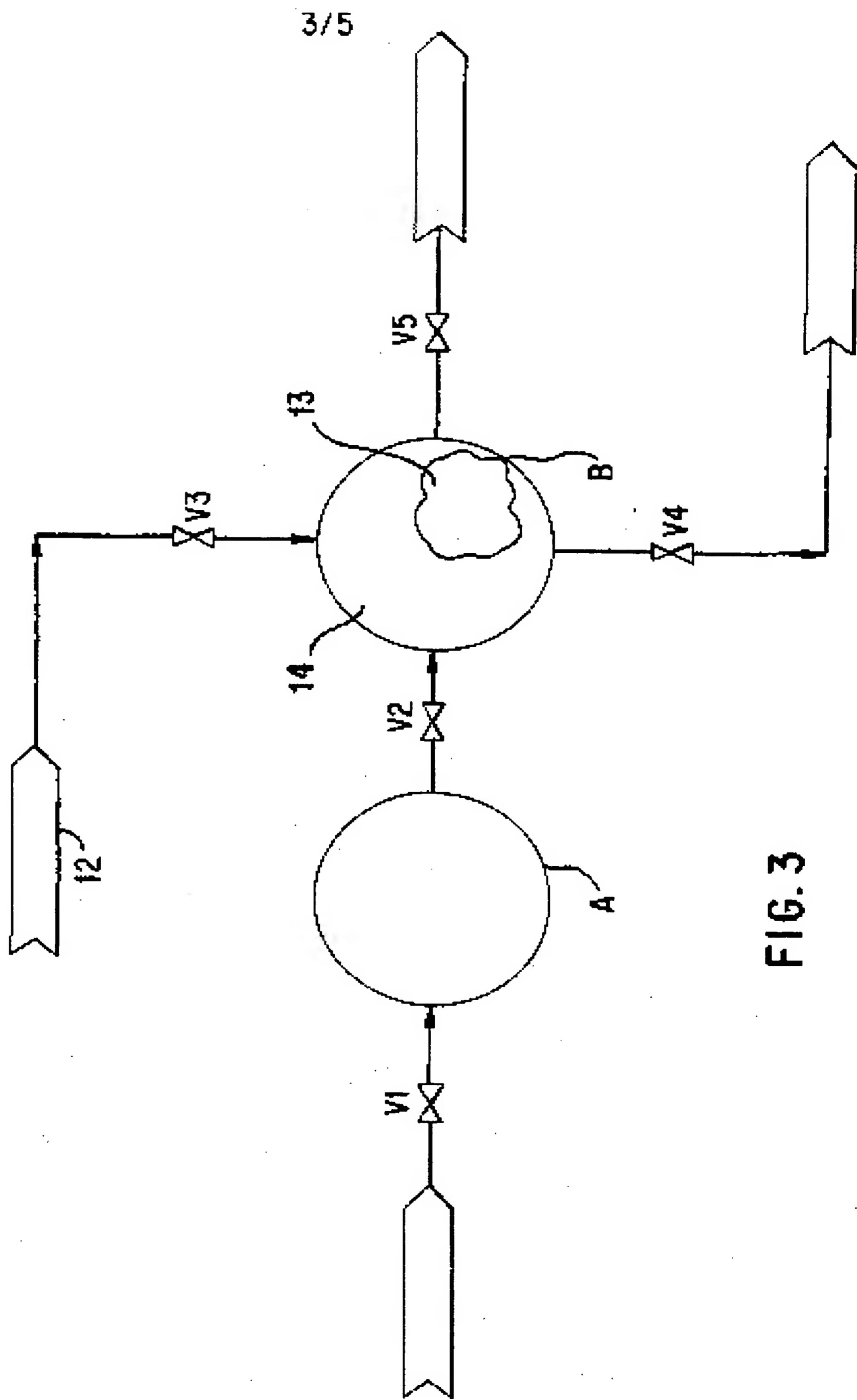


FIG. 3

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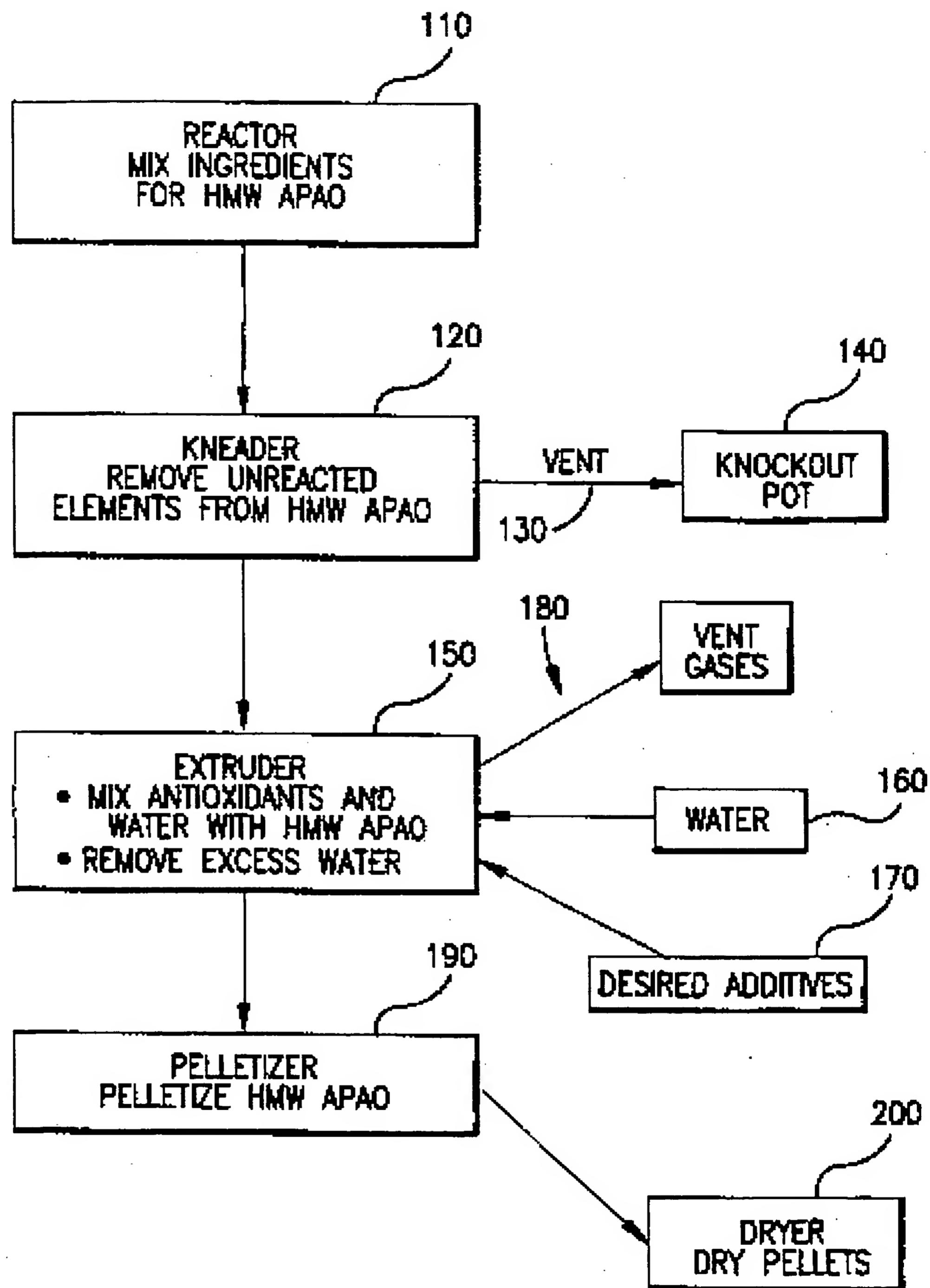


FIG.5

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